

FIG. 1

105270-52376

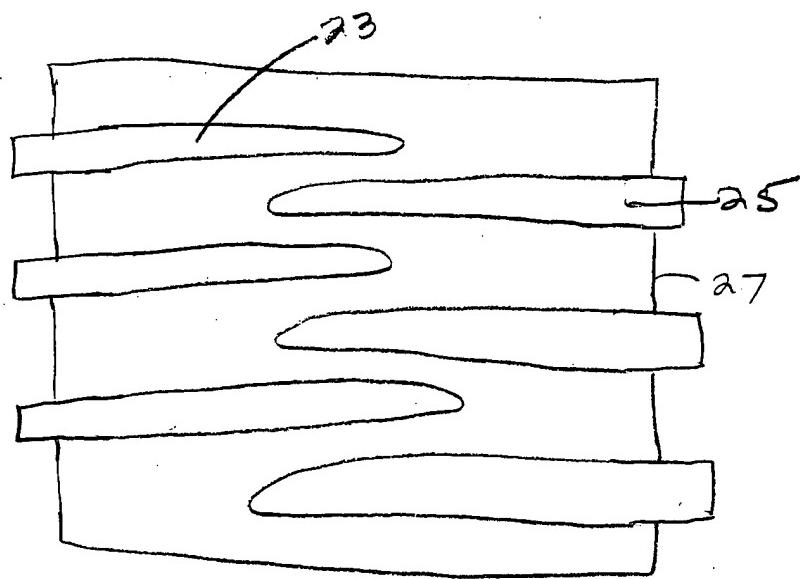


FIG. 2A

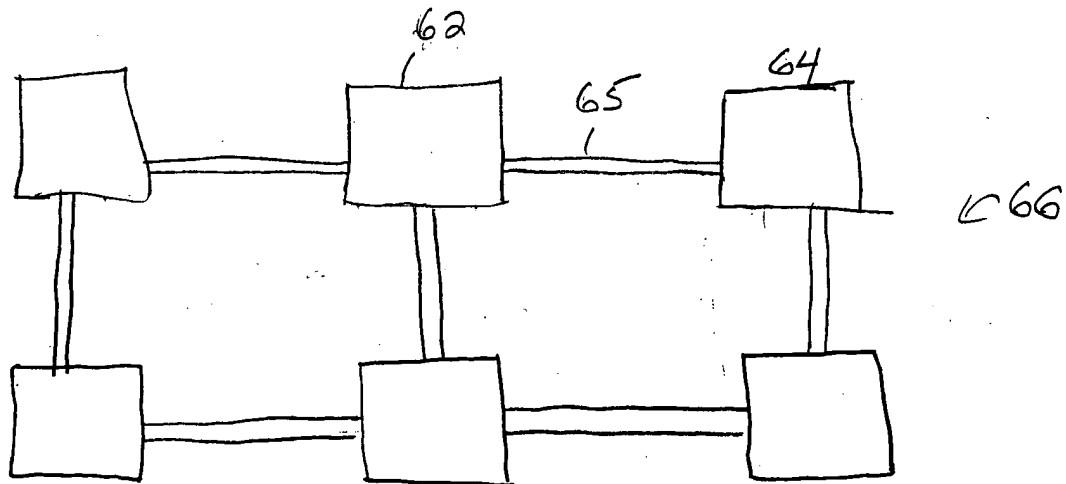


FIG. 5

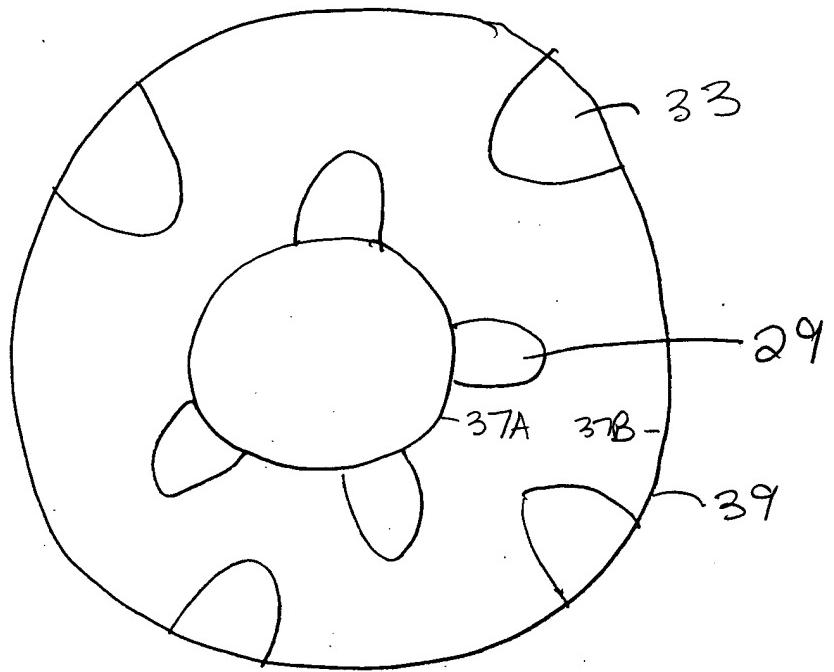


FIG. 2B

FIGURE THREE

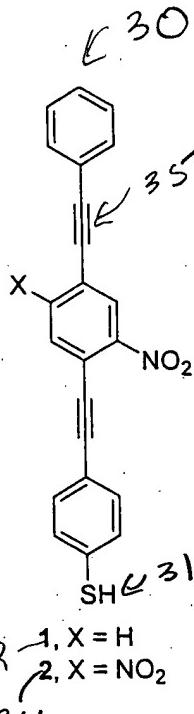


FIG. 3

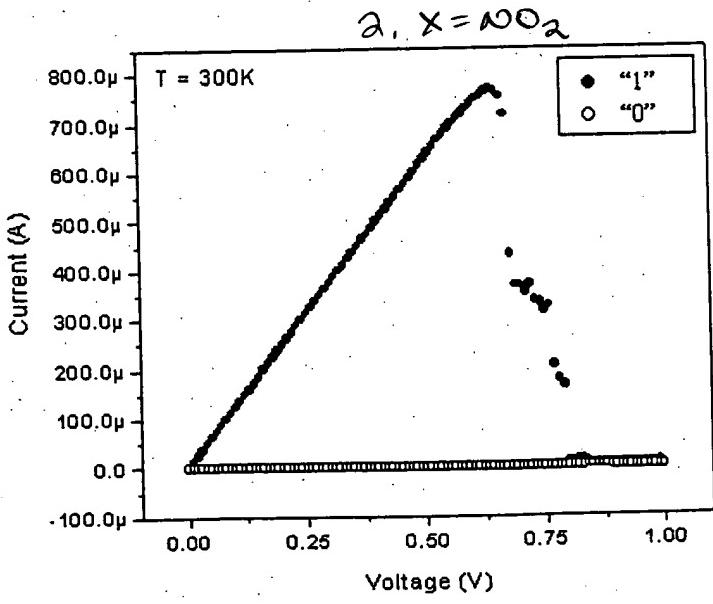
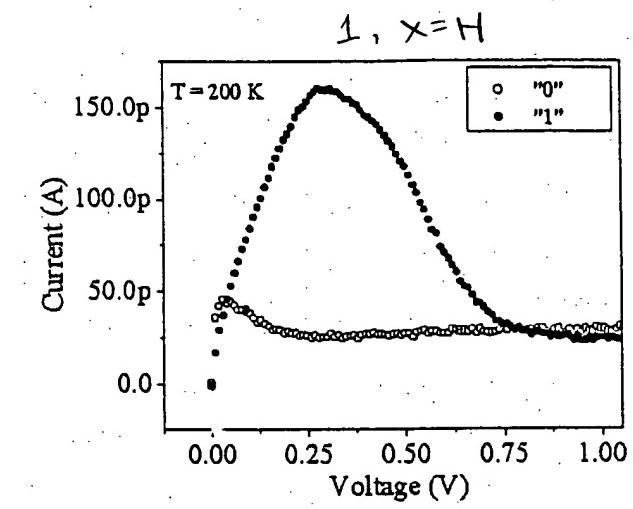


FIG. 4

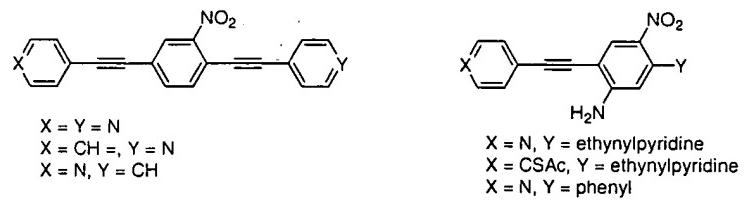


FIG. 6

Untrained Nanocell

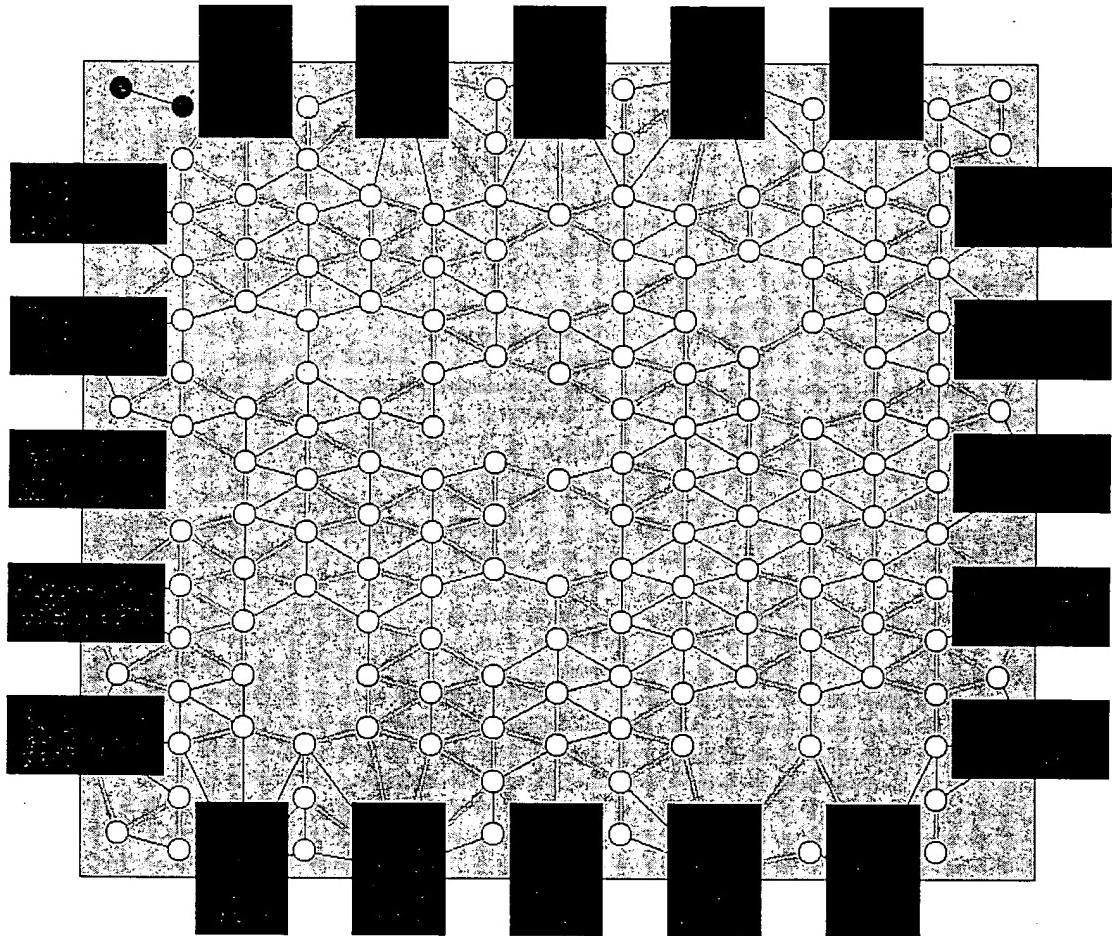
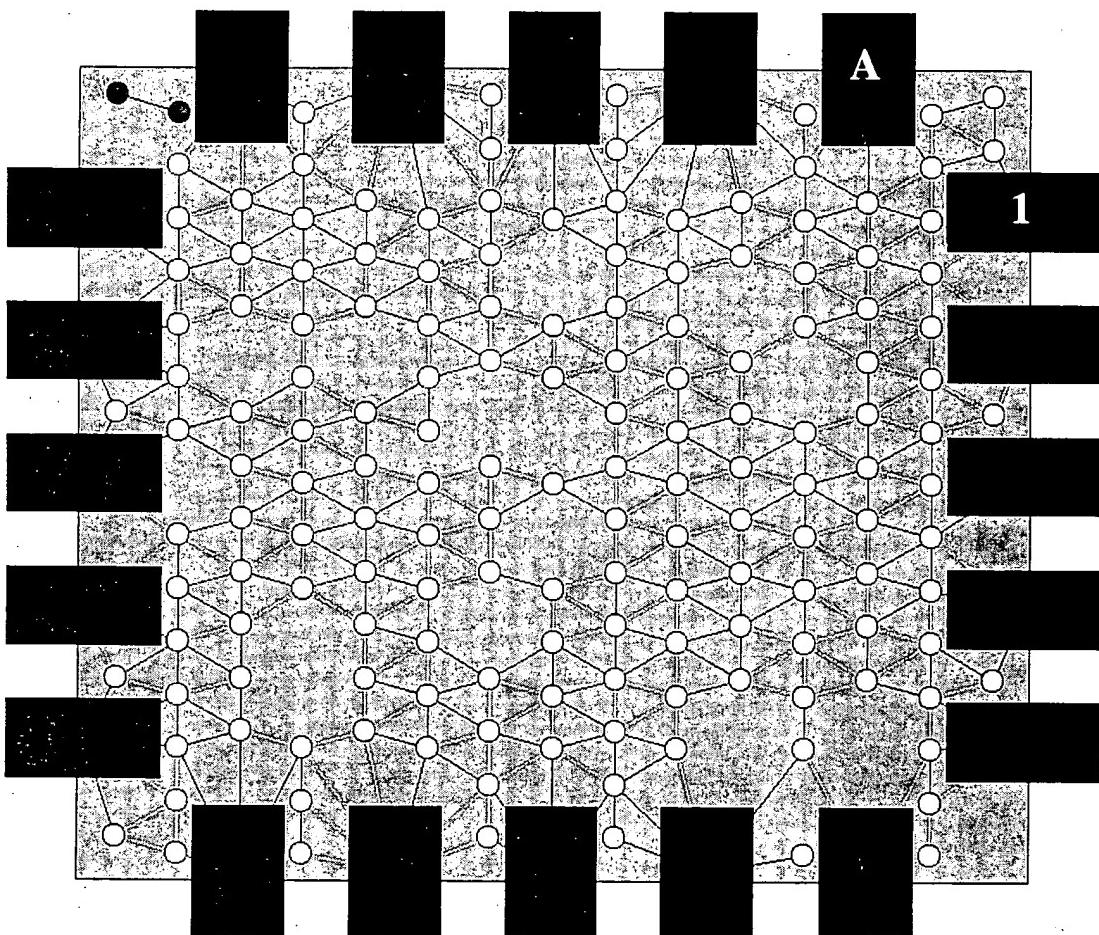


FIG. 7

09012625 022401

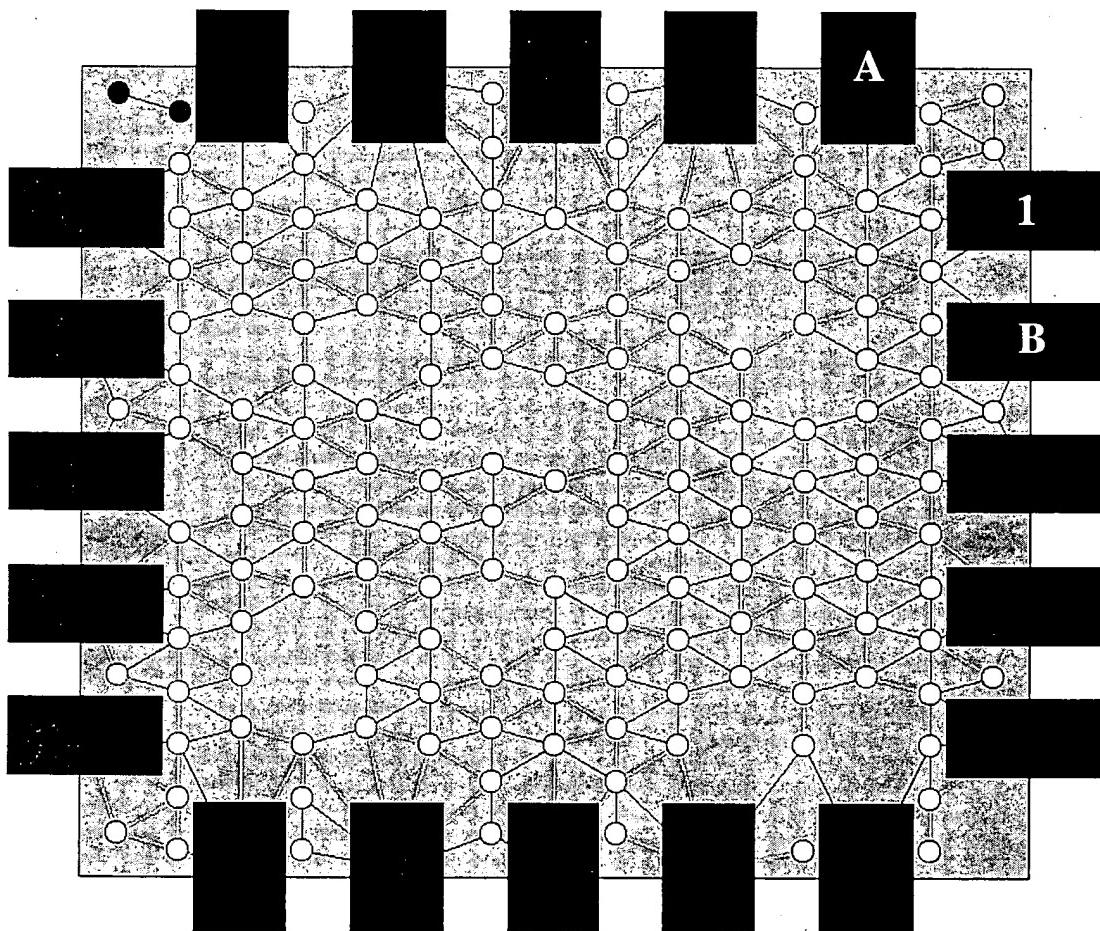
Nanocell Trained as Inverter



Inverter Truth Table	
Input A	Output 1
0	1
1	0

FIG. 8

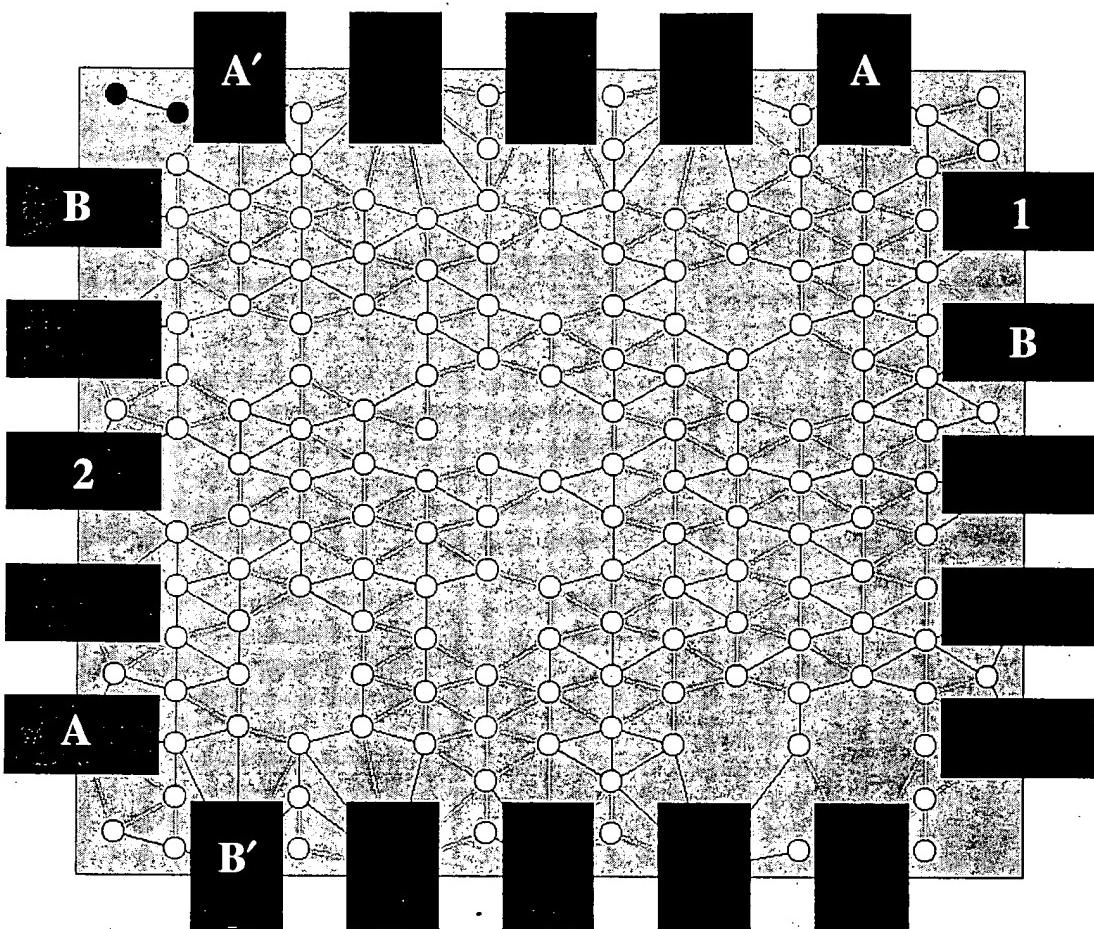
Nanocell Trained as Nand



Nand Truth Table		
Input A	Input B	Output 1
0	0	1
0	1	1
1	0	1
1	1	0

FIG. 9

Nanocell Trained as Inverse Half Adder



Inverse of Half Adder Truth Table			
Input A	Input B	Output 1	Output 2
0	0	1	1
0	1	1	0
1	0	1	0
1	1	0	1

FIG. 10